Attorney Docket No.: Q89903

AMENDMENT UNDER 37 C.F.R. § 1.114(c) Application No.: 10/553,196

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

## LISTING OF CLAIMS:

- 1. (currently amended): A titania nanotube having a length of +10 μm or more.
- 2. (original): The titania nanotube according to Claim 1 the diameter is 0.1  $\mu m$  or less.
- (original): The titania nanotube according to Claim 1 or 2 wherein the aspect ratio is 100 or more.
- (previously presented): A sensor having the titania nanotube according to Claim
  1 or 2 and an electrode in which the titania nanotube and the electrode are connected.
- (previously presented): A method for producing the titania nanotube of Claim 1, comprising a step of dispersing a titania powder in a sodium hydroxide aqueous solution at a temperature of 60°C or more.
- (original): The method according to Claim 5 wherein the titania powder has an average particle diameter of 50 nm or less.

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7. (original): The method according to Claim 5 or 6 wherein the amount of the

titania powder is 0.01 part by weight or more and 0.1 part by weight or less based on 100 parts

by weight of a sodium hydroxide aqueous solution.

8. (previously presented): The method according to Claim 5 or 6, wherein the

sodium hydroxide aqueous solution has a concentration of sodium hydroxide of 1 M or more and

15 M or less.

9. (original): The method according to Claim 8 wherein the sodium hydroxide

aqueous solution has a concentration of sodium hydroxide of 3 M or more and 13 M or less.

10. (original): The method according to Claim 9 wherein the sodium hydroxide

aqueous solution has a concentration of sodium hydroxide of 7 M or more and 12 M or less.

11. (previously presented): The method according to Claim 5, wherein dispersion is

conducted at 90°C or more and 120°C or less.

12. (previously presented): The method according to Claim 5, wherein dispersion is

conducted by stirring or irradiation with an ultrasonics.

13. (original): The method according to Claim 12 wherein dispersion is conducted by

stirring.

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(previously presented): A sensor having the titania nanotube according to Claim

3 and an electrode in which the titania nanotube and the electrode are connected.

15. (previously presented): The method according to Claim 7, wherein the sodium

hydroxide aqueous solution has a concentration of sodium hydroxide of 1 M or more and 15 M

or less.

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